PACIFIC GAS AND ELECTRIC COMPANY

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JAMES D. SHIFFER
VICE PRESIDENT
NUCLEAR POWER GENERATION

February 25, 1986

PGandE Letter No.: DCL-86-047

Mr. John B. Martin, Regional Administrator
U. S. Nuclear Regulatory Commission, Region V
1450 Maria Lane, Suite 210
Walnut Creek, CA 94596-5368

Re: Docket No. 50-275, OL-DPR-80
     Docket No. 50-323, OL-DPR-82
     Diablo Canyon Units 1 and 2
     IE Bulletin 85-01 - Steam Binding of Auxiliary Feedwater Pumps

Dear Mr. Martin:

In accordance with the requirements of IE Bulletin 85-01, "Steam Binding of
Auxiliary Feedwater Pumps," dated October 29, 1985, PGandE hereby submits the
enclosed report describing PGandE's actions in implementing the requirements
of this bulletin.

Kindly acknowledge receipt of this material on the enclosed copy of this
letter and return it in the enclosed addressed envelope.

Subscribed to in San Francisco, California this 25th day of February 1986.

Respectfully submitted,

Pacific Gas and Electric Company

By _____
   J. D. Shiffer
   Vice President
   Nuclear Power Generation

Robert Ohlbach
Philip A. Crane, Jr.
Richard F. Locke
Attorneys for Pacific
Gas and Electric Company

By _____
   Philip A. Crane, Jr.

8603110097 860225
PDR   ADOCK 05000275
Q   PDR

Subscribed and sworn to before me
this 25th day of February 1986

_____
Nancy J. Lemaster, Notary Public in
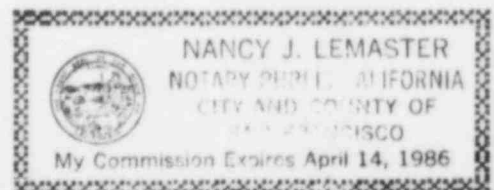and for the City and County of
San Francisco, State of California

(SEAL)

My commission expires April 14, 1986.

Enclosure

cc: L. J. Chandler   S. A. Varga
     R. T. Dodds   CPUC
     B. Norton   Diablo Distribution
     H. E. Schierling

0713S/0042K/DY/RHM/2127

ENCLOSURE

PGandE RESPONSE TO IEB 85-01, STEAM BINDING OF AUXILIARY FEEDWATER PUMPS
REQUIREMENTS

IEB 85-01 Requirements

1. "Develop procedures for monitoring fluid conditions within the AFW system
   on a regular basis during times when the system is required to be
   operable. This monitoring should ensure that fluid temperature at the
   AFW pump discharge is maintained at about ambient temperature.
   Monitoring of fluid conditions, if used as the primary basis for
   precluding steam binding, is recommended each shift.

   This item is not intended to require elaborate instrumentation. A simple
   means of monitoring temperature, such as touching the pipe, is a
   satisfactory approach."

   Response

   In response to INPO's Significant Operating Experience Report (SOER)
   84-3, "Auxiliary Feedwater Pumps Disabled by Backleakage," and IE
   Information Notice 84-06, "Steam Binding of Auxiliary Feedwater Pumps,"
   PGandE implemented a monitoring program in which the auxiliary feedwater
   piping is hand touched each shift to identify excessive heat. This
   action is included on the Auxiliary Operator rounds sheet. This program
   satisfies the requirement.

2. "Develop procedures for recognizing steam binding and for restoring the
   AFW system to operable status, should steam binding occur."

   Response

   Operating Procedure OP 0-18, "Recognition and Alleviation of Steam
   Binding in Auxiliary Feedwater Pumps," for Diablo Canyon Units 1 and 2
   has been developed to address this concern; the procedure was approved on
   January 24, 1986. This procedure had been included in the Operator
   Requalification Training Program.

3. "Procedural controls should remain in effect until completion of hardware
   modification to substantially reduce the likelihood of steam binding or
   until superseded by action implemented as a result of resolution of
   Generic Issue 93."

   Response

   A hardware modification to place temperature detectors downstream of the
   auxiliary feedwater pumps with annunciation in the control room is
   scheduled to be installed during the first refueling outage for Unit 1
   and is presently being installed on Unit 2. Once these modifications are
   completed, operating procedure OP 0-18 will be replaced with a permanent
   upgrade to the Annunciator Response Manual. This annunciator response
   will ensure that steam binding is recognized and that the AFW system is
   restored to operable status should steam binding occur.